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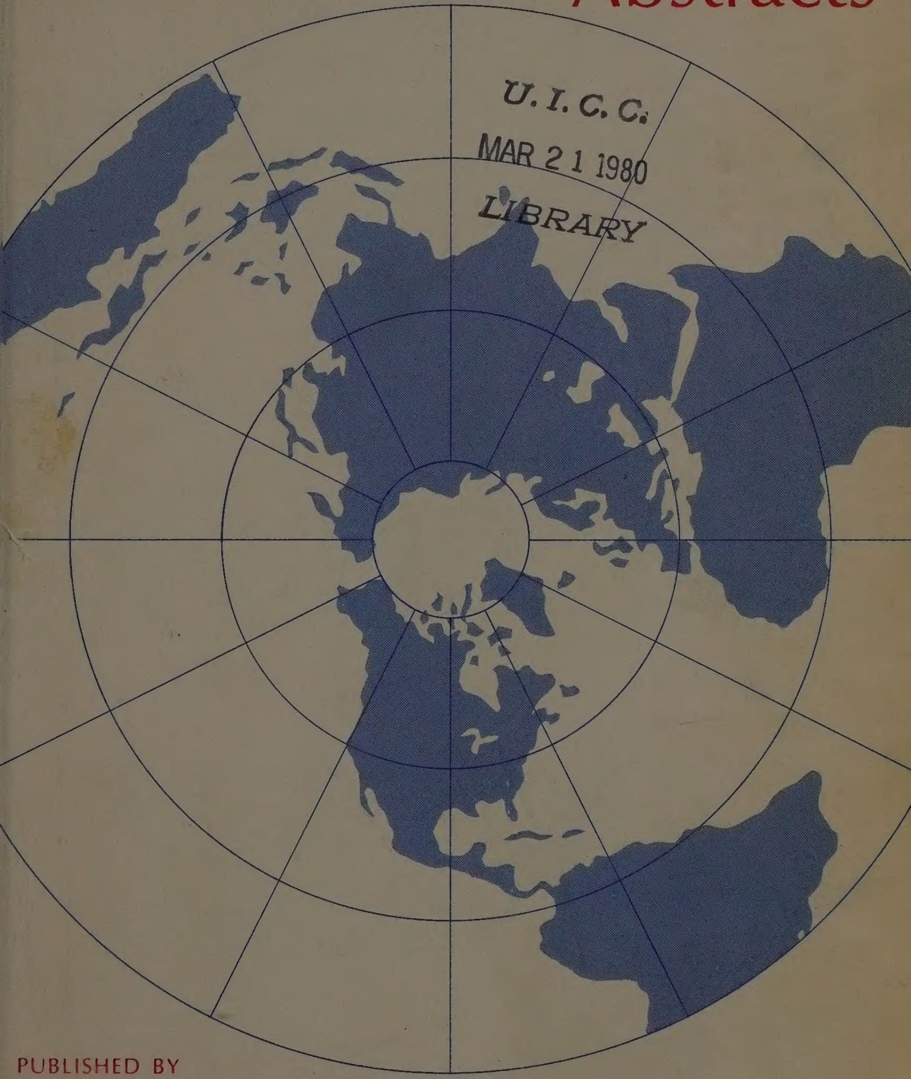

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27.6 -233	Author: *change* "Sastri, J. Hanumath" to "Hanumath Sastri, J."
27.6 -498	Author: *change* "Feldstein, Y. I." to "Fel'dshteyn, Ya. I."
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27.8 -497	Author: *change* "Lupachov, Yu. V." to "Lupachev, Yu. V."
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Acoustical Propagation, 1(10), 1950; 10(7), 1959
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Arctic Synoptic Meteorology, 7(1), 1956
Atmospheric Dynamics and Circulation, 12(12), Pt. 3, 1961
Atmospheric Pollution, 1(1), 1950
Auroral Physics, 4(10), 1953; 5(3), 1954; 12(1,2), 1961

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Carbon Dioxide, 3(2), 1952
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Energy Exchange, Sea-Atmosphere, 13(5), 1962
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Geomagnetism, 9(10,11), 1958; 13(2), 1962
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Icing, 1(9), 1950
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Precipitation, 10 (Supplement No. 2), 1959
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Wind Waves and Swell, 5(11), 1954

SELECTED LIST OF FREQUENTLY CITED PUBLICATIONS

AIDJEX Bulletin, Univ. of WA., Seattle
Acoustical Society of America, New York, Journal
Acta Geophysica Polonica, Warsaw
Acta Hydrophysica, Berlin
Agricultural Meteorology, Amsterdam
Agronomy Journal, Madison, WI.
Air Pollution Control Association, Pittsburgh, PA., Journal
Akademiya Nauk S.S.S.R., Izvestiya. Fizika Atmosfery i Okeana
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Alma-Ata, Kazakhstan. Nauchno-Issledovatel'skiy Gidrometeorologicheskiy Institut, Trudy
American Geophysical Union, Washington, D.C., EOS: Transactions
American Meteorological Society, Boston, Bulletin
Annales de Géophysique, Paris
Annali di Geofisica, Rome
Antarctic Journal of the United States, Washington, D.C.
Antarctic Record, Tokyo
Applied Optics, New York
Archiv für Meteorologie, Geophysik und Bioklimatologie, Ser. A and B, Vienna
Arctic and Alpine Research, Boulder, CO.
Arctic Bulletin, Washington, D.C.
Astrophysics and Space Science, Dordrecht
Astrophysics and Space Science Library, Dordrecht
Atmosphere–Ocean, Toronto
Atmospheric Environment, Oxford
Atmospheric Technology, Boulder, CO.
Australian Journal of Agricultural Research, Melbourne
Australian Journal of Physics, Melbourne
Australian Journal of Soil Research, Melbourne
Australian Meteorological Magazine, Canberra
Bollettino di Geofisica Teorica ed Applicata, Trieste
Boundary-Layer Meteorology, Dordrecht
Bratislava. Univ. Prírodovedecká Fakulta, Meteorologia
British Interplanetary Society, London, Journal
Bŭlgarsko Geofizichno Spisaniye, Sofia
Bulletin of Marine Science, Rosenstiel School of Marine and Atmospheric Science, Univ. of Miami, FL.
Canadian Journal of Earth Sciences, Ottawa
Canadian Journal of Physics, Ottawa
Clean Air, Brighton, England
Clean Air, Sydney, Australia
Climatic Change, Dordrecht
Contributions to Atmospheric Physics, Oxford
Dal'nevostochnyy Nauchno-Issledovatel'skiy Gidrometeorologicheskiy Institut, Vladivostok, Trudy
Deep-Sea Research, Oxford
Deutsche Gewasserkundliche Mitteilungen, Koblenz
Društvo Meteorologov Sloveniji, Ljubljana, Yugoslavia, Razprave
Dynamics of Atmospheres and Oceans, Amsterdam
Earth and Planetary Science Letters, Amsterdam
East African Agricultural and Forestry Journal, Nairobi
Ecological Monographs, Durham, N.C.
Ecology, Durham, N.C.
Environmental Conservation, Lausanne, Switzerland
Environmental Research, New York
Environmental Science & Technology, Washington, D.C.
Erde, Berlin
Erdkunde, Bonn
Földrajze Értesíto, Budapest
Geografiska Annaler, Ser. A, Physical Geography, Stockholm
Geographical Journal, London
Geographical Review, New York
Geomagnetizm i Aeronomiya, Moscow
Geophysical Research Letters, Washington, D.C.
Gerlands Beiträge zur Geophysik, Leipzig
Hakodate, Japan. Marine Observatory, Bulletin
Hidrotehnica, Bucharest
Icarus, New York
Időjárás, Budapest
Indian Journal of Meteorology, Hydrology & Geophysics, Delhi
International Field Year for the Great Lakes, IFYGL Bulletin, Rockville, MD.
International Journal of Biometeorology, Amsterdam
Japan. Science Council, Tokyo. Ionosphere Research Committee, Report of Ionosphere and Space Research in Japan
Journal de Recherches Atmosphériques, Clermont-Ferrand
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Journal of the Atmospheric Sciences, Boston
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Khidrologiya i Meteorologiya, Sofia
Kiev, Ukraine. Nauchno-Issledovatel'skiy Gidrometeorologicheskiy Institut, Trudy
Kosmicheskiye Issledovaniya, Moscow
Leningrad. Glavnaya Geofizicheskaya Observatoriya, Trudy
Limnology and Oceanography, Lawrence, KS.
Marine Observer, London
Marine Technology Society, Washington, D.C., Journal
Mariners Weather Log, Washington, D.C.
Maritimes, Kingston, R.I.
Meteorological Magazine, Bracknell
Meteorological Society of Japan, Tokyo, Journal
Meteorologicke Zpravy, Prague
Météorologie, Paris, Série 6
Meteorologische Rundschau, Berlin
Meteorologiya i Gidrologiya, Moscow
Monthly Weather Review, Boston
Moscow. Universitet, Vestnik, Ser. 3, Fizika, Astronomiya
Moscow. Universitet, Vestnik, Ser. 5, Geografiya
National Weather Digest, Clinton, MD.
Nature, London
Naturwissenschaftliche Rundschau, Stuttgart
Nordic Hydrology, Copenhagen
Oceanographical Magazine, Tokyo
Oceanography and Meteorology, Nagasaki
Okeanologiya, Moscow
Optics Letters, New York
Papers in Meteorology and Geophysics, Tokyo
Petermanns Geographische Mitteilungen, Gotha, E. Germany
Planetary and Space Science, Oxford
Poland. Instytut Meteorologii i Gospodarki Wodnej, Warsaw, Prace
Poland. Instytut Meteorologii i Gospodarki Wodnej, Warsaw, Rocznik Meteorologiczny
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Reviews of Geophysics and Space Physics, Washington, D.C.
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Revue de Géographie Alpine, Grenoble
Royal Astronomical Society, Oxford, Geophysical Journal
Royal Meteorological Society, Bracknell, Eng., Quarterly Journal
Sapporo, Japan. Hokkaido Univ. Faculty of Science, Journal, Ser. 7, Geophysics
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Search, Sydney

- Seewart, Hamburg
- Sendai District, Japan. Meteorological Observatory, Journal of Meteorological Research of Tohoku District
- Solar Energy, Oxford
- Solar Physics, Dordrecht
- Solar–Terrestrial Environmental Research in Japan, Tokyo
- South African Journal of Science, Johannesburg
- Space Science Reviews, Dordrecht
- Studia Geophysica et Geodaetica, Prague
- Tashkent. Sredneaziatskiy Nauchno-Issledovatel'skiy Gidrometeorologicheskiy Institut, Trudy
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- Water, Air and Soil Pollution, Dordrecht
- Water Resources Research, Washington, D.C.
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- Wetter und Leben, Vienna
- Zeitschrift für Meteorologie, Berlin

ANNUALS

- Advances in Environmental Science and Technology, New York
- Advances in Geophysics, New York
- Association Nationale de Lutte contre les Fléaux Atmosphériques, Toulouse [Rapport sur la campagne]
- Australia. Australian Numerical Meteorology Research Centre, Melbourne
- Belgium. Institut Royal Météorologique, Brussels, Annuaire Climatologique
- Belgium. Institut Royal Météorologique, Brussels, Annuaire Hydrologique
- Canada. Centre for Inland Waters Branch, Burlington
- Colombia. Federación Nacional de Cafeteros de Colombia, Chinchiná, Anuario Meteorológico
- Great Britain. Meteorological Office, Bracknell
- Hungary. Országos Meteorológiai Szolgalat, Budapest, Hivatalos Kiadványai
- Israel. Meteorological Service, Bet-Dagan
- Japanese Progress in Climatology, Tokyo
- Italy. Osservatorio di Fisica Terrestre, Seminario Arcivescovile, Milan, Annuario
- Poland. Instytut Meteorologii i Gospodarki Wodnej, Warsaw
- Rumania. Institutul de Meteorologie și Hidrologie, Bucharest, Anuarul Meteorologie
- Rumania. Institutul de Meteorologie și Hidrologie, Bucharest, Culegere de Lucrări
- Rumania. Observatorul de Fizica Atmosferei, Bucharest, Anuarul
- Switzerland. Meteorologische Zentralanstalt, Zurich
- Thessaloniki, Greece. Univ. Meteorological–Climatological Institute, Annuaire
- Tokyo. Meteropolitan Univ., Geographical Reports
- Zagreb, Yugoslavia. Hidrometeorološki Zavod SR Hrvatske

NUMBERED MONOGRAPHS

- Australia. Commonwealth Scientific and Industrial Research Organization, Melbourne, Div. of Atmospheric Physics, Technical Paper
- Belgium. Institut Royal Météorologique, Brussels, Publications, Series A and B
- Berlin. Freie Univ. Institut für Meteorologie, Meteorologische Abhandlungen, Ser. A, Monographien
- California. Univ., Institute of Marine Resources, La Jolla, IMR Ref.
- California. Univ., Scripps Institution of Oceanography, La Jolla, Papers
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- Canada. Dept. of the Environment. Atmospheric Environment Service, Downsview, TEC
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- Canada. Environment Canada. Atmospheric Environment, Downsview, CLI
- Canada. Inland Waters Directorate, Ottawa, Scientific Series
- Canada. Marine Sciences Directorate, Victoria, Pacific Marine Science Report
- Chicago. Univ., Dept. of Geophysical Sciences, Cloud Physics Lab., Technical Note
- Cologne. Univ., W. Germany. Institut für Geophysik und Meteorologie, Mitteilungen
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- Colorado. State Univ., Ft. Collins. Environmental Research Papers
- Finland. Helsinki Univ., Dept. of Meteorology, Report
- Finland. Ilmatieteen Laitos, Helsinki, Suomen Meteorologinen Vuosikirja
- Finland. Meteorological Institute, Helsinki, Contributions
- Finland. Meteorological Institute, Helsinki, Technical Reports
- Food and Agriculture Organization of the United Nations, Rome, FAO Fisheries Technical Paper
- France. Météorologie Nationale, Paris, Monographie
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- Ghent. Observatory of Ghent. State Univ., Meteorology and Geophysics
- Global Atmospheric Research Programme, GARP Publications Series
- Global Atmospheric Research Programme, GARP Special Report
- Global Atmospheric Research Programme, GATE Report
- Great Britain. Meteorological Office, Scientific Papers
- Hawaii. Univ., Honolulu. Dept. of Meteorology, UHMET
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- Hong Kong. Royal Observatory, Technical Note
- Intergovernmental Oceanographic Commission, Paris, Technical Series
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- Italy. Osservatorio Geofisico, Macerata, Rendiconti
- Japan. Meteorological Agency, Tokyo, Results of Marine Meteorological and Oceanographic Observations
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- Massachusetts Institute of Technology, Cambridge, MIT Sea Grant Program, Report MITSG
- National Center for Atmospheric Research, Boulder, CO., NCAR Technical Notes
- Netherlands. Meteorologisch Institut, The Hague, Mededelingen en Verhandelingen
- New York. Sea Grant Institute, Albany, MESA New York Bight Atlas Monograph
- New Zealand. Meteorological Service, Wellington, Miscellaneous Publication
- Oslo. Institutt for Teoretisk Astrofysisk, Report
- Polish Academy of Sciences, Warsaw, Publications of the Institute of Geophysics
- Rhode Island. Univ. Kingston, Marine Technical Report
- Smithsonian Institution, Cambridge, MA., Astrophysical Observatory, Special Report
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- Sweden. Meteorologiska och Hydrologiska Institut, Stockholm, SMHI Rapporter: Meteorologi och Klimatologi

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27.9 –493	Author: *change* "Lozovatsky, I." to "Lozovatskiy, I."
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27.10–324	Serial note: *change* "17(2)" to "16(2)."
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27.10–340	Author: *change* "Jarmillo-Robledo, Alvaro" to "Jaramillo-Robledo, Alvaro."
27.10–344	Subject Heading: *change* "Design data load on structures" to "Design data for load on structures."
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United Nations Educational, Scientific, and Cultural Organization. World Meteorological Organization
Records of the international conference on the results of the International Hydrological Decade and on future programmes in hydrology, Paris, 2–13 September 1974, Vol. 1, Final report, 27.8–11
Records of the international conference on the results of the International Hydrological Decade and on future programmes in hydrology, Paris, 2–13 September 1974, Vol. 2, Reports of international, governmental, and nongovernmental organizations on their contributions to the programme of the decade, 27.8–12
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Records of the international conference on the results of the International Hydrological Decade and on future programmes in hydrology, Paris, 2–13 September 1974, Vol. 5, Technical reports on selected scientific activities related to the IHD programme, 27.8–14
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United States Agricultural Research Service, Wash., D.C.
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United States Air Force Systems Command, Los Angeles, CA. Space and Missile Systems Organization
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United States Army Corps of Engineers, Baltimore District, MD.
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United States Army Corps of Engineers, Committee on Tidal Hydraulics, Vicksburg, MS.
Bibliography on Tidal Hydraulics, 27.2–588

United States Army Corps of Engineers. Detroit District, MI.
- Shoreline flood protection study, Monroe County, Michigan: feasibility report, 27.8–369

United States Army Corps of Engineers. Louisville District, KY.
- Flood plain information: Indian Creek, Marion County, Indiana, 27.9–334
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United States Army Corps of Engineers, Nashville District, TN.
- Flood plain information: Little Goose Creek, Hartsville, Tennessee, 27.3–432

United States Atmospheric Turbulence and Diffusion Lab. [Oak Ridge, TN.]
- 1973 annual report, 27.1–221
- 1974 annual report, 27.7–203

United States Council on Environmental Quality, Wash., D.C.
- Environmental quality, 27.11–5

United States Environmental Protection Agency, Washington, D.C.
- Progress in the prevention and control of air pollution in 1974, 27.7–4

United States Executive Office of the President, Office of Emergency Preparedness, Wash., D.C.
- Disaster preparedness: report to the Congress, Vol. 2, 27.12–293

United States Federal Aviation Administration, Wash., D.C.
- Airways surface observations: tape deck 1440, 27.8–26
- Aviation weather for pilots and flight operations personnel, 27.9–22
- Aviation weather services: a supplement to Aviation Weather *AC* 00-6A, 27.9–23

United States Federal Coordinator for Marine Environmental Prediction, Wash., D.C.
- Federal plan for marine environmental prediction, fiscal year 1976, 27.10–501

United States Federal Coordinator for Meteorological Services and Supporting Research, Wash., D.C.
- Federal plan for meteorological services and supporting research, Fiscal year 1977, 27.12–37
- Federal plan for natural disaster warning and preparedness: first supplement, FY 1976–1980, 27.3–92
- National East Coast Winter Storms Operations Plan, 27.10–125

United States Federal Task Force on Inadvertent Modification of the Stratosphere (IMOS), Wash., D.C.
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United States Geological Survey, Wash., D.C.
- Groundwater levels in the United States, 1969–73: Southern States, 27.4–517
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- Surface water supply of the United States, 1966–1970, Pt. 6, Missouri River basin, Vol. 3, Missouri River basin from Sioux City, Iowa, to Nebraska City, 27.3–543

United States Geological Survey. Water Resources Div., Champaign, IL.
- Water resources data for Illinois, water year 1975, 27.8–495

United States Goddard Space Flight Center, Greenbelt, MD.
- Nimbus-6 data catalog, Vol. 1, 12 June 1975 through 31 August 1975, data orbits 1 through 1082, 27.10–57
- Nimbus-6 data catalog, Vol. 2, 1 September 1975 through 31 October 1975: data orbits 1083 through 1900, 27.11–83
- Nimbus-6 data catalog, Vol. 3, 1 Nov. 1975 through 31 Dec. 1975, data orbits 1901 through 2717, 27.10–64
- Nimbus-6 data catalog, Vol. 4, 1 January 1976 through 29 February 1976, data orbits 2718 through 3521, 27.12–89

United States Interdepartmental Commitee for Atmospheric Sciences, Wash., D.C.
- National Atmospheric Sciences Program, fiscal year 1976, 27.5–33
- Possible impact of fluorocarbons and halocarbons on ozone, 27.5–196

United States Library of Congress. Environmental Policy Division, Wash., D.C.
- Research and development relating to sulfates in the atmosphere, 27.10–165

United States National Advisory Committee on Oceans and Atmosphere, Wash., D.C.
- Annual report, 4th, 27.5–34

United States National Bureau of Standards, Wash., D.C.
- Wind and seismic effects, 27.10–342

United States National Committee for the International Hydrological Decade, Wash., D.C.
- Catalog of United States contributions to the International Hydrological Decade, 1965–1974, 27.3–524
- Nuclear techniques in hydrology: current status and prospective uses, 27.7–561

United States National Environmental Satellite Service, Wash., D.C.
- Satellite activities of NOAA, 1975, 27.10–65

United States National Oceanic and Atmospheric

Administration, Rockville, MD.
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United States National Oceanic and Atmospheric Administration. Environmental Data Service, Rockville, MD.
Annotated acronyms and abbreviations of marine science related international organizations, 27.8–581
United States National Oceanic and Atmospheric Administration. Environmental Data Service. Center for Experiment Design and Data Analysis, Rockville, MD.
BOMEX permanent archive: description of data, 27.3–45
BOMEX synoptic weather atlas, 27.1–46
United States National Oceanic and Atmospheric Administration. Environmental Data Service. National Climatic Center, Asheville, N.C.
Marine climatological summaries, Vol. 9, 1969, 27.10–404
United States National Oceanic and Atmospheric Administration. Environmental Modification Office, Rockville, MD.
Weather modification activity reports, calendar year 1974, 27.6–138
United States National Oceanic and Atmospheric Administration. Environmental Research Labs., Boulder, CO.
Atmospheric physics and chemistry laboratory, collected reprints, 1973, 27.1–13
Geophysical monitoring for climatic change no. 2, Summary report, 1973, 27.1–127
Geophysical monitoring for climatic change No. 3, summary report—1974, 27.5–467
Ocean dumping in the New York bight, 27.3–577
United States National Oceanic and Atmospheric Administration. Environmental Research Labs., Atmospheric Physics and Chemistry Lab., Boulder, CO.
Collected reprints, 1974–1975, 27.12–38
United States National Oceanic and Atmospheric Administration. National Hurricane and Experimental Meteorology Lab., Miami, FL.
Hurricane and tropical cumulus report, no. 76, 27.8–212
United States National Oceanic and Atmospheric Administration. National Ocean Survey, Rockville, MD.
Tide and current glossary, 27.8–582
United States National Weather Service. Systems Development Office, Silver Spring, MD.
Programs and accomplishments, Systems Development Office, fiscal year 1975, 27.5–130
United States Naval Weather Service Command, Asheville, N.C.
U.S. Navy marine climatic atlas of the world, Vol. 1, North Atlantic Ocean, 27.8–384
United States Naval Weather Service Detachment, Asheville, N.C.
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United States Office of Federal Coordinator for Meteorological Services and Supporting Research, Wash., D.C.
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United States Senate. Committee on Aeronautical and Space Sciences, Wash., D.C.
Stratospheric ozone depletion: Hearings before the Subcommittee on the Upper Atmosphere of the Committee on Aeronautical and Space Sciences, United States Senate, ninety-fourth Congress, first session, Sept. 8, 9, 15, and 17, Pt. 1, 27.10–180
Stratospheric ozone depletion: Hearings before the Subcommittee on the Upper Atmosphere of the Committee on Aeronautical and Space Sciences, United States Senate, ninety-fourth Congress, first session, Sept. 18, 19, and 23, 1975, Pt. 2, 27.11–208
United States Water Resources Scientific Information Center, Wash., D.C.
Selected annotated bibliography on the analysis of water resource systems, Vol. 6, 27.7–569
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